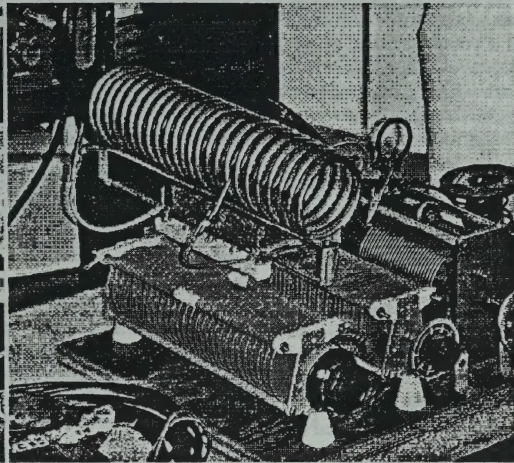
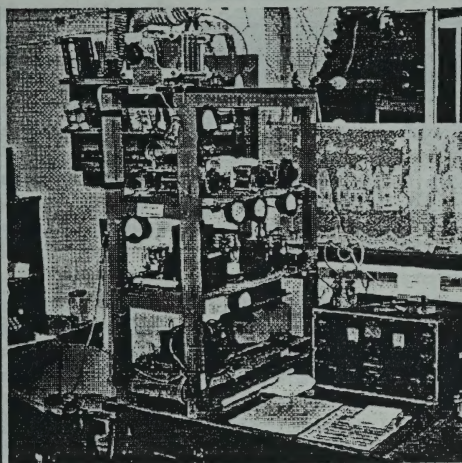


The Coordinator

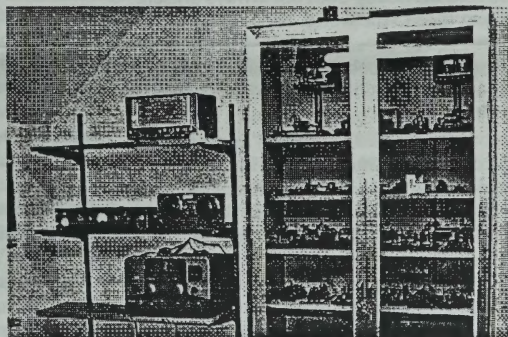


Museum A Special Treat

The Radio Club of Tacoma Museum is worth seeing. WWARA members who attended the June WWARA Board meeting were treated to a trip back in history. The Club has been collecting antique radio equipment for many years and then restoring pieces as time permits.

Some of the club members, being real die hards, have hand built the clubs CW transmitter (as shown above) from scratch using "real ham radio" practices. The transmitter is built on a wooden-frame with twisted filament wiring running between the different vacuum tubes and stages, open air variable capacitors and hand wound inductors complete the transmitter. Tuning the station is just as unique as its construction. Special loop inductors connected to neon and incandescent lights held in place by hand near the tuned circuits are used to dip and peak the transmitter. Even the stations tuner is built open frame in the traditional amateur practice.

The Club's museum contains everything from an original spark gap transmitter to some of the latest amateur gear. If you missed the WWARA meeting, you missed a great snapshot of history!



The display case on the right contains a large collection of antique cw keys.



Radio Club of Tacoma's meeting / class room

What's In This Issue

Something New with Hy-Gain
Grizzly Peak - New Info
Multiple Call Sign Holders ?
FCC TakeIt Away?
Correspondence Log
Coordination Policies
WWARA NW Repeater Directory
WWARA Board Minutes
Hollingsworth at Dayton
Swap and Shop (Forsale)
And more!

FCC'S HOLLINGSWORTH IS DAYTON'S MAN OF THE HOUR

The FCC's Riley Hollingsworth, K4ZDH, exhorted a standing-room-only crowd at the Dayton Hamvention to "read over the basis and purpose of Amateur Radio and the rules in Part 97" and to operate as if youngsters and overseas stations might be listening in. He made the remarks Friday during the first of two FCC forums in Hara Arena.

Calling Amateur Radio "an American institution," Hollingsworth momentarily assumed the mantle of the ham radio evangelist. Ham radio, he said, is "not about the First Amendment, it's not about slandering somebody you don't like, it's not about ridiculing somebody who's operating 10 kHz away, it's not about jamming or obscenity." Nor, he said, is it intended to be a talk show or an "electromagnetic forum for hate groups" or "an audio version of The Jerry Springer Show."

Hollingsworth called the on-air activities of some hams "childish and stupid" and said the hobby does not always present its best face to the world. He also said hams need to understand that demand for HF spectrum in countries outside the US is increasing.

"Too many in our service take the allocations for granted," he said. "Some of the Third World countries would love to have 75 meters as a national telephone system," he said. What does transpire on some amateur frequencies or "is often an international embarrassment," he said.

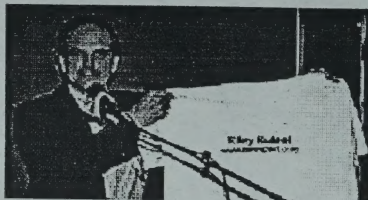
"What kind of service is it when you're afraid to leave on the radio in the house or the car?" he asked. Hollingsworth said he even knew of a young Extra class amateur whose parents won't let him on 75 meters.

He asked law-abiding hams to not retaliate against hams who are offensive on the

air or who break the law but to shun them instead. He also challenged each ham to recruit one newcomer into the hobby or to help another licensee to upgrade.

Hollingsworth especially encouraged recruiting young girls into Amateur Radio. He delivered similar remarks during two other Dayton forums and received an enthusiastic reception—including a standing ovation.

In response to a question from the audi-



Riley Hollingsworth displays award.

ence, Hollingsworth revealed that FCC officials on May 14 had attempted to visit the station of Glenn Baxter, K1MAN, in Belgrade Lakes, Maine. Baxter heads the American Amateur Radio Association; his on-the-air talk and news transmissions have been the subject of some controversy within the amateur community. Hollingsworth said that, although Baxter's station was on the air, no one came to the door, and the building appeared to be locked.

Hollingsworth and an FCC field office team from Detroit spent several hours doing enforcement work at the Hamvention itself. The field office personnel attempted, without success, to determine the sources of intentional interference on the Hamvention's 2-meter talk-in frequency. At least one source appeared to be mobile.

FCC personnel also cited or verbally warned several vendors about violations related to the sale of amplifiers.

MFJ PURCHASES HY-GAIN

MFJ Enterprises has acquired Hy-Gain, a well-known manufacturer of antennas, towers, and rotators. Hy-Gain was owned by Telex Communications of Lincoln, Nebraska. The deal closed May 10, according to MFJ President Martin Jue, KSFLU, who declined to reveal the purchase price. MFJ planned to move the antenna manufacturing facility to Mississippi and staff it with local employees. Jue said he anticipated production at the new site could begin within a few weeks.

"We bought everything—the whole deal," Jue said. "We're going to have to shift some things around to make room."

As it has done with other enterprises it's acquired, MFJ plans to keep the Hy-Gain name and operate the antenna manufacturer as a separate entity. Hy-Gain products will compete with MFJ's own line of antenna products, but Jue said the short-lived Ameritron antenna line would be discontin-

hy-gain.

ued in favor of the Hy-Gain line.

Former Cushcraft Production Manager Art Hambleton, K1ART, joined MFJ Enterprises last fall. Jue said Hambleton will be involved in the new Hy-Gain venture, but he was not sure in what capacity. Hambleton manned the Hy-Gain booth at the Dayton Hamvention last month.

Jue said Hy-Gain would immediately start selling the entire product line through the Amateur Radio dealer network. For the past year, Hy-Gain had sold its products factory-direct. MFJ said it expects there to be a "small transition period" as stock, parts, equipment, and production are moved to Starkville. As part of MFJ, Hy-Gain will continue its current product line and introduce several new ones—including two new verticals announced at Dayton.

Jue said customers can contact Hy-Gain at 800-647-1800; fax 601-323-6511; <http://www.mfjenterprises.com>.

Western Washington Amateur Relay Association

Enclosed Please Find _____ Dollars for _____ Years Dues (12.00/yr)
and _____ Dollars for _____ Copies of WWARA Rptr Dir (\$6 ea)

Name: _____ Call _____

Address: _____

City / St _____ Zip _____

Multiple call sign holders could be fined

The FCC's may have to resort to fines to curb the practice of hoarding multiple club station call signs.

"The reason we're concerned about this is that we consider it an abuse of our licensing processes," Hollingsworth FCC's legal adviser for enforcement Reilly Hollingsworth, K4ZDH.

"If somebody applies for 30 or 40 licenses over time, and overloads the staff. What people don't realize is club call signs are keyed in manually.

If we have continued abuse, we're going to have to levy some forfeitures, which we have done in the past for abuse of Commission processes.

With short staff and budget considerations, we just can't let things like this go on," Hollingsworth

Earlier this month, a ham listed as the trustee for more than three dozen club station call signs agreed to give up all but one of them. Motoaki Uotome, JA1GZV, who also holds a U.S. Extra ticket as W9BO, apparently was the trustee of 41 club station call signs. Last month, the FCC set aside 14 recently granted club station call signs and 12 recently granted club vanity call signs he held and asked Uotome to justify the grants.

An Internet search indicates that Uotome also holds one or more Amateur Radio club signs in Australia, Chile, and Uruguay.

Hollingsworth concedes that the FCC rules do not specify an upper limit to the number of call signs an individual may hold, but says "the underpinning of the rules is common sense." He recommended that multiple call sign holders should seriously consider turning in their excess grants before they hear from the FCC.

News of the cases already has had an impact. Hollingsworth says several holders of multiple call signs are voluntarily given up their excess grants.

The FCC says the two year rule applies for those seeking to obtain one of the desirable call signs being yielded or called back by the FCC.

Hollingsworth plans to specify a date of cancellation so that it will be clear when the two years are up.

"We're also going to let them know that they can't reclaim any of the calls under former call sign holder except to that two year period," Hollingsworth

Close relatives also would be unable to claim any of the call signs in the future the FCC says.

FCC COMES TO TERMS WITH GRIZZLY PEAK LICENSEE

An agreement has been struck to let the San Francisco Bay Area's K7IJ Grizzly Peak repeater system return to the air. The FCC's top Amateur Radio Enforcer, Riley Hollingsworth, K4ZDH, announced a negotiated settlement May 14 at an FCC forum at the Dayton Hamvention. The K7IJ repeater system was shut down by the FCC March 5 after Commission officials determined it was out of control of the licensee, Bruce Wachtell, K7IJ, and primary control operator Blake Jenkins, N6YSA. The case involved evidence that had been developed by members of the Amateur Auxiliary.

Among other conditions, the K7IJ repeaters will have to provide for a "live, real-time control operator" at all times.

The shutdown followed complaints that Jenkins routinely allowed unlicensed individuals to use the repeater and that he and others engaged in prohibited practices on the air. Along with the shutdown notice to Wachtell, Warning Notices went to several K7IJ regulars alleging behavior that included airing cordless telephone and air traffic control conversations as well as profane language.

Hollingsworth has been discussing possible resolutions to the K7IJ situation with Wachtell and Jenkins for several weeks now. "If this doesn't work, we're gonna shut 'em down again without hesitation," he told the ARRL.

In addition to requiring a live, full-time control op, the five-point "K7IJ Repeater Agreement" requires the repeater operators to configure an audio stream to let the FCC monitor the repeaters at all times. Additionally, stations not known to the control operator now must identify at the beginning of their transmissions, not just after 10 minutes.

To deter unlicensed operators from using the machines, the control operator would have to announce that the repeater "does not welcome or tolerate unlicensed users." The control operator would have to turn off the machine and report it to the Commission if unlicensed operators persist. Licensed stations not abiding by FCC rules on the K7IJ repeaters would be asked to bring their operation into compliance.

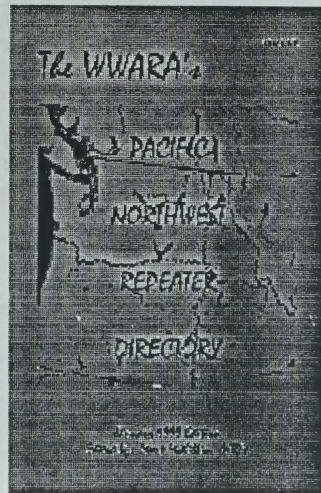
"This is a good-faith agreement," Hollingsworth said. If the repeaters are operated in compliance with the conditions, Wachtell and Jenkins can avoid further enforcement action. On the air reports indicate the licensee and control operator are enforcing the terms of the agreement. "My impression is that the operation of the repeater on the 2-meter side sounded like any normal repeater," one observer reported. "Certainly not like the K7IJ before the shutdown."

In a related action, Hollingsworth recently recalled K7IJ regular Timmy O. Sheen Jr, N6MZA, of Sacramento for retesting. He also issued a "final warning" to James C Walker, KF6VAA, of Oakland, for allegedly continuing to transmit on area repeaters after his Technician class grant was set aside in February in connection with the K7IJ case. Hollingsworth said the FCC would deal with these and other related cases individually.

IT'S GREEN, IT'S HOT AND IT'S HERE!

The 1999 issue of the *WWARA's Pacific Northwest Repeater Directory* is here. After being delayed for a short time the long awaited directory is in the stores and the WWARA has copies available for purchase by WWARA members, stores and clubs.

If you prepaid for the 1999 Directory, you should have received your copy via mail. If you haven't received yours yet, contact the WWARA Secretary Mark McClain at 425 881-9389.



FCC ACTS AGAINST GRIZZLY PEAK "REGULARS"

In the wake of a recent negotiated settlement, the K7IJ Grizzly Peak repeaters in the San Francisco Bay area are back on the air, and on-air behavior is said to be in compliance with the rules. Now, the FCC is turning its attention to cases involving individuals who once frequented those repeaters before they were shut down by the Commission in early March. This week, FCC suspended VHF privileges in one case involving a K7IJ "regular" and dismissed a pending Amateur Radio application and issued a stern warning in another.

In its strongest action yet in the K7IJ case, the FCC dismissed the pending Amateur Radio application of James C. Walker, formerly KF6VAA, of Oakland. In conjunction with the K7IJ repeater shutdown, the FCC had set aside Walker's Technician class grant in February, alleging that Walker had transmitted on the K7IJ repeater before getting his amateur license.

In a letter to Walker May 26, FCC Legal Adviser Riley Hollingsworth, K4ZDH, dismissed Walker's still-pending Technician application.

Hollingsworth's letter said the Commission had evidence that, despite the set aside, Walker had continued to transmit on amateur frequencies using KF6VAA and had been operating on the WA6SEK 145.21 MHz repeater in the Stockton, California, area. Walker was warned May 20 about that operation. Hollingsworth issued a second warning notice for unlicensed radio operation in his May 26 letter. He said that if Walker later reappplies for an amateur license, he would have to attest that he had ceased unlicensed operation.

Hollingsworth also said that the FCC wants to resolve issues related to Walker's operation on the K7IJ and WA6SEK repeaters before it entertains another amateur application from Walker.

"This may require an evidentiary hearing before an Administrative Law Judge," Hollingsworth said, adding that Walker could face criminal prosecution if he oper-

ates radio transmitting equipment again without a license.

In another Grizzly Peak-related case, the FCC suspended the VHF/UHF privileges of Timmy O. Sheen, N6MZA, a Tech Plus licensee, by modifying his license. Sheen already has been called in by the FCC for retesting; he has until June 30 to appear or his license will be canceled. In a May 26 letter, Hollingsworth said the FCC had information that Sheen also had been on the WA6SEK 145.21 MHz repeater "broadcasting, playing music and deliberately interfering with repeater operations for several hours." Sheen had been warned in February about similar operation on the K7IJ repeaters, and Hollingsworth said Sheen had been in touch with him to say other stations had interfered with him and to apologize for events leading up to the more recent allegations.

"Retaliation cannot be accepted as an excuse for deliberate or malicious interference or broadcasting," Hollingsworth said, adding "this fact has been explained to you in the past." Sheen has 30 days to protest the action.

In another case related to the WA6SEK repeater, the FCC this week modified the license of Technician licensee William B. Gifford, KF6URY, of Stockton to prohibit VHF/UHF operation for 90 days. The FCC alleged that Gifford was "broadcasting and deliberately interfering" with operations on the WA6SEK 145.21 MHz repeater for

What Happens Next

by WR7V

A very close friend of mine NJ7Z, Dave Johnson passed away this last week after a one-year battle with cancer. Dave leaves behind his wife and three children and several grand children.

Dave like the rest of us had "his" room that consisted of his station and other electronic goodies and toys. The room was off limits to all except those that were invited in. Those who were not hams and lucky enough, were amazed and awed with the boxes of electronics stacked several layers high. I have to admit that his room was better organized and kept a lot cleaner than mine.

Upon Dave's passing his wife is left to the task of removing and disposing of Dave's collection. Dave was the only ham in his family but, he did have a couple of good ham friends and we have volunteered to help her with this last task. Since Dave's collection is contained within the family home it won't be a difficult job to dismantle his station, inventory and catalog items that will be offered for sale and suggest which ones that should be donated to a school or club.

It wasn't very many years ago that if something had happened to me, my wife who is a ham, would have been in a turmoil, not what to do with my goodies but, how to get to them and find them! I had repeaters, antennas and equipment hidden everywhere. Yes, they were coordinated but that does not help finding where they were, which building, and which box not to mention access. Well, in my case I have paired down my goodies away from home and have taken the time to show her what and where everything is.

Some of us though, have built durable repeaters and have multi-repeater sites with 'special' arrangements that make locating and retrieving them difficult at best. If you were unfortunate and had something happen to you, is there a plan for your system? Is there anyone else who knows where the equipment is and who could help retrieve it or turn it off?

Good friends like Dave are hard to come by and hopefully his passing can be used by us all as a reminder to share with our other friends and relatives the 'secrets' of our hobby. Dave Johnson, NJ7Z 1938 - 1999 SK.

THE FCC GIVETH, TAKETH AWAY

The FCC's Riley Hollingsworth, K4ZDH, says that a Delaware ham required by the FCC to retake her Amateur Extra class exam has successfully retested and is "off the hook" with the FCC. The FCC requested in February that Sheila Bowden, N3QQS, of Millsboro, retake her examinations by March 19. Bowden showed up at a March 13 ARRL-VEC testing session where she retook and passed the written exam.

"We are accepting Sheila Bowden's successful retest for the Extra class license, and accepting the doctor's certificate exempting her from the code test," Hollingsworth said May 27, adding that he was happy about the outcome. "Any time you audit a program, it's always better to have happy news than it is to have disappointing news," he said. Hollingsworth said it took until now to clear the case from his books because the FCC wanted to further investigate the physician's waiver that

Bowden had submitted in lieu of taking a Morse code examination.

Hollingsworth said, however, that he was "not in a position to recommend to the W5YI-VEC" that Sheila Bowden be allowed to administer amateur exams again, mainly due to what he called "unresolved questions" about Bowden's husband, Wayne.

Wayne Bowden has not been so lucky in his dealings with the FCC. Earlier this year, the FCC dismissed the Extra class license he formerly held, AA3RT, after the Commission discovered "irregularities in the administration of the examination by the Volunteer Examiners." Wayne Bowden took the complete Amateur Radio examination series at an October 4 W5YI-VEC session. He had not held an amateur license before then. An FCC probe continues into alleged testing irregularities at Pennsylvania W5YI-VEC sessions October 4 and 6, including allegations that examinees might have been coached or given test answers.

Hollingsworth said he has been unsuccessful in his efforts to contact Wayne Bowden, despite several attempts. He said that Sheila Bowden had written him a letter on her husband's behalf, but that he had needed to hear from the licensee directly.

In other action, the FCC has modified the General class license of David O. Castle, WA9KJI, of Evansville, Indiana, to prohibit HF operation for two years. Hollingsworth said in a letter May 19 that the FCC had information that Castle had operated on 3950 kHz "contrary to the Amateur Radio Service rules" by causing malicious interference and broadcasting.

Hollingsworth said that on May 1, Castle was heard "broadcasting and talking to no particular station for over an hour, during which time you prevented the use of the frequencies by others and maliciously interfered with other stations."

Hollingsworth's letter said that Castle had "falsely claimed" to be in contact with another station. As a result of the alleged violations, the FCC suspended Castle's privileges to operate below 30 MHz.

Hollingsworth had warned Castle in January regarding such operation. Last September, the FCC restricted Castle's operating hours for allegedly engaging in the same type of conduct. Castle has 30 days to protest the latest license modification.

The FCC has canceled the licenses of several individuals who failed to appear after being called in for retesting. The FCC lifted the Technician class license of Joseph P. Santini, N2RGZ, of Belleville, New Jersey, after he failed to appear to retake his Amateur Radio examinations. Santini had until May 10 to retake his tests.

Correspondence Log

Please review the log below. If you sent the WWARA any correspondence it should appear here. If you sent something and it doesn't appear then the WWARA did not receive it. Remember it is your responsibility to ensure your communications are received.

04/29/1000	Ck from ARRL
05/01/1999	Email correspondence from Brad Gulleff, N7BAG
05/02/1999	Email correspondence- 2m Band Chair to Gary Kohtala, W7NTF
05/09/1999	Email correspondence from/to John Stein, AB7F
05/10/1999	Email correspondence to Marty Hadfield, WB7AFV
05/11/1999	Received coverage plots from Marty Hadfield, WB7AFV
05/12/1999	Received coverage plots from Marty Hadfield, WB7AFV
	Email correspondence from Karl Shoemaker, WA7YCP
05/17/1999	Online Renewal from Lloyd Tufts, N7ZNN
05/19/1999	Dues from Karl Shoemaker, WA7YCP
05/20/1999	Email correspondence from Matt Taormina, N7KXU
05/25/1999	Email correspondence from Jim Etzwiler, KD7BAT
	Email correspondence- Chairman to George Merchant, VE7CHU
	Email correspondence & Online Update from Bob Donnell, KD7NM
05/26/1999	Email correspondence to Jim Etzwiler, KD7BAT
05/27/1999	Email correspondence from John Stein, AB7F
05/29/1999	Ck request from Mark McKibbin, WR7V
05/30/1999	Email correspondence from Dick Morrison, K7KFM
	Email correspondence from Mel Mills, VE7MF
05/31/1999	Email correspondence from Dick Morrison, K7KFM
06/03/1999	Ck for RD's from David Tyler, W7FEL
	\$30 cash for RD's sold at Board Mtg
	Ck for RD from Barbara Phinzy, KD7EVY
	Dues and Ck for RD from Brian Radabaugh, KG7PD
	Dues from John Leaden, WB7UFR
	2 TD Sheets from Bill Rourke, W7ERH
	Dues and Fees from Pete Policani, K7PP
	Dues, TD Sheet, and Fee from Lloyd Tufts, N7ZNN
	TD Sheet from Ivory Jackson Jr, N7CNN
06/05/1999	Fee from Phil Kester, WN7Q
06/07/1999	Email correspondence from Gene Scott, K7IYN
06/10/1999	Email correspondence- 6m Band Chair to Jim Kaufman, W7UMH
	Email correspondence from IACC (via 2m Band Chair)
06/13/1999	Ck for 3 RD's from Jon Marcinko, WR7JM
06/17/1999	Email correspondence from Bud Davenport, KA7GCT
06/18/1999	Email correspondence- 2m Band Chair to Bud Davenport, KA7GCT
06/19/1999	Email correspondence- 2m Band Chair to Gary Kohtala, W7NTF
06/20/1999	Email correspondence from Kevin Doren
06/22/1999	Online Renewal from Tom Bigelow, KG7IK
06/23/1999	Received Board Mtg minutes from Herman, K7PAG
	Email correspondence from Steve Burling, KJ7YL
	Email correspondence from Mike Soley, KJ7TY
06/24/1999	Address change from Richard Myr, W7MYR
06/25/1999	Correspondence from Russ Karns, K7ILC
	Dues and Ck for RD from Martha Salot, N7ZCC
06/26/1999	Email correspondence to Pete Policani, K7PP
06/29/1999	Email correspondence to Steve Burling, KJ7YL
	Email correspondence to Mike Soley, KJ7TY

(RD= Repeater Directory, TD= Technical Data)

FCC Legal Adviser for Enforcement Riley Hollingsworth had sent Santini a Warning Notice April 5 alleging that the FCC had evidence that Santini had been maliciously interfering with VHF repeater operations.

The FCC also has canceled the Technician class license of Rusty Leewright, KE6UOF, of Northridge, California, after Leewright failed to appear, as requested, to retake his Amateur Radio examinations. And, the FCC canceled the Advanced class license of Joseph C. Walker, W8JCW, of Gaylord, Michigan, after Walker failed to

appear, as requested, to retake his General and Advanced class exams.



WWARA COORDINATION POLICIES

COORDINATION REQUIRES COOPERATION

The WWARA is a voluntary association of amateur radio operators, relay system owners and interested parties. The Association has collectively determined that the coordination of relay systems is essential to maximize the finite spectrum resources allocated to amateur radio and minimize the interference between systems. The success of the Association is solely dependent on those amateurs who actively cooperate and participate in spectrum management and contribute to the coordination processes.

It is not the intent nor the obligation of the WWARA to act as a spectrum enforcer ensuring coordination compliance, rather it is the obligation of the individual coordination holder to ensure their system's coordination compliance and to provide updated and timely information when necessary.

All parties must realize that the amateur spectrum is a fragile resource and abuse can spoil it for everyone now and in the future. Voluntary coordination by its name implies cooperation. Any party wishing to develop and operate a relay system should feel obligated to seek the synergy of existing relay system operators through WWARA coordination, prior to placing any relay system in operation. Coordinated amateurs have the full support of other coordinated amateurs.

The FCC has stated that where the transmission of a repeater causes harmful interference to another repeater, the two station licensees are equally and fully responsible for resolving the interference unless the operation of one station is recommended by a frequency coordinator and the operation of the other station is not. In that case, the licensee of the non-coordinated repeater has the primary responsibility to resolve the interference.

The WWARA will accept application from any duly licensed individual or amateur group and will issue a Certificate of Coordination based on the following policies and procedures. However the WWARA reserves the right to deny requests for Certificate of Coordination to applicants who refuse to abide by these WWARA Coordination Policies and Procedures.

The WWARA does not issue Certificates of Coordination, channelize, or attempt to create band plans for simplex frequencies falling outside the area reserved for repeater inputs or outputs.

The boundaries of the WWARA coordination responsibility are:

- north - The Border
- east - The Cascade Crest
- south- The southern boundary of the WWARA is on the West of the Oregon Washington border eastward up the Columbia river to a point just north of Woodland, then eastward through I-5 exit #21 to the Lewis river then eastward to its beginning then eastward to the Cascade Crest.
- west - Pacific Ocean

REPEATER COORDINATION PARAMETERS AND GUIDELINES

All coordinated frequencies are for a specific:

- a. Frequency(s)
- b. Transmitter location (latitude and longitude)
- c. Effective Radiated Power
- d. Radiation pattern (directional, non directional*, etc.)
- e. Elevation (AMSL, AGL, HAAT)
- f. Individual or designated individual (4/93)

g. Access (12/94)

h. Period of Time

This information is considered public information.

*Use of directional antennas may be an essential part of any given coordination

All new Certificate of Coordinations shall indicate the use of continuous tone(s) (CTCSS, DPL, Frequency Shift Data, etc.) as a means of system access except where an applicant can demonstrate that COS operation will no cause interference. Other means of limiting access like DTMF or cheap beep are not acceptable.

The following are guidelines for sharing repeater pairs:

a. Harmful interference which endangers the functioning of radio navigation service or of other safety services or seriously degrades, obstructs or repeatedly interrupts a radio communication service operating in accordance with the Radio Regulations. Hearing the output of another cochannel repeater in the frequency of a system not in use is not interference.

b. Overlap is based on a 25 watt or less mobile using a gain antenna bringing up more than one system over a large area.

c. No fixed mileage separation criteria can be used between co-channel or adjacent channel system.

d. Receiver coverage of a repeater is a large factor in determining the coverage of a system. Those systems with a number of voting receivers, receivers at elevations higher than the repeater transmitter or system operating with excessive transmitter power will not have extended coordination protection.

e. Repeater DX'ing by users may cause unintended interference to co-channel systems but is not a matter for WWARA action.

ACCESS, HEIGHT, POWER, FREQUENCY OR LOCATION CHANGES

Coordination is based on information provided by the applicant and contained on the WWARA Technical Data Sheet. If a coordination holder significantly changes the location, access, antenna height or pattern, effective radiated power, frequency, or other operating parameters of his system, the repeater will be required to be re coordinated. The WWARA secretary shall be notified in writing on the appropriate form. Recordation is required to verify that interference to or from other repeaters does not occur. Reoordination is not to allow another repeater or proposed repeater to be assigned to the frequency.

Note: Significantly shall be a power change of 1 db, an antenna height change of more than 25 feet or a horizontal move of more than 1500 feet. For the 1db power change the WWARA uses a factor of .75 or 1.25 of the original power. For example a 100 watt ERP station multiplied by .75 would be 75 watts, or multiplied by 1.25 would be 125 watts.

PROCESSING FEES

All applicants seeking a Certificate of Coordination shall pay a non refundable Application Processing Fee.

Certificate of Coordination holders wishing to renew their Certificate of Coordination or transfer their Certificate of Coordination shall pay a renewal processing fee.

APPLICATION FOR COORDINATION

An applicant for coordination may select or request a certain frequency.

All applicants requesting a Certificate of Coordination may appeal the decision of the Board through the formal grievance procedure.

On bands where coordinatable frequencies are available coordination requests shall be acted upon on a first come, first serve basis.

In the case of mutually exclusive applications for coordination, the WWARA shall weight its decision based on the following:

- a. Duplication of coverage of an existing system on the same band.
- b. Coverage of a non served area.
- c. Potential for interference.
- d. Number of existing Certificates of Coordination held and operated by the applicants.
- e. Proposed operation of an open rather than a closed system. Prior to placing a repeater in operation;

1. The applicant submits, in writing, a request to the Secretary.
2. The Secretary responds with:
 - a. An outline of the application process and the fee schedule
 - b. A Technical Data Form
 - c. A copy of the Coordination Standards / Policies and by-laws.
 - d. Copies of the appropriate band plans.
 - e. Procedure to obtain the latest public version of the WWARA Data Base.

3. The applicant returns the appropriate processing fee to the Secretary, a completed Technical Data Form, co-channel letters and any other pertinent supporting information.

4. The Secretary forwards the application to the band coordination committee.

5. The coordination committee recommends a frequency and other parameters pursuant to the Coordination Policies, considering the effect on adjacent areas and establishes a testing period to prove or disprove the suitability of the recommend frequency.

6. In the event that the entire Board must act as the Band Coordination Committee or when unresolved issues are involved, the matter will be discussed at the next meeting of the WWARA.

7. The Secretary issues the Certificate of Coordination to the applicant or notifies the applicant by mail as to the result of the Associations action.

The Certificate of Coordination is based on all data available to the WWARA at the time the Certificate is issued. A Certificate of Coordination is not a guarantee of a clear frequency. The suitability of the frequency(s) shall be the responsibility of the applicant.

Applicants proposing co-channel operation with an existing established system shall:

1. Make reasonable attempts to obtain cochannel letters of authorization from current Certificate of Coordination holders on the frequency. (This requirement may be waived by the Band Chairman for the initial test period, if in his/her opinion, the existing Certificate of Coordination holder will not be affected).

2. If such authorization cannot be obtained, the Band Chairman may recommend to the Board, a test period to prove or disprove adverse interference to the current Certificate of Coordination holder or users.

3. Based on 1 and 2 above, the Board will make final determination regarding permanent cochannel assignment.

The WWARA reserves the right to:

- a. Deny requests for Certificate of Coordination in congested bands or require the use of less congested bands.
- b. Set aside frequencies for certain operating modes.
- c. Limit antenna height and ERP.
- d. Require special methods of access as a prerequisite for a Certificate of Coordination.

CONSTRUCTION PERIOD

The initial Certificate of Coordination is for a 6 month period. It is the responsibility of the applicant to notify the WWARA immediately when the frequencies are activated. Thereafter Certificates of Coordination are issued for a five year period of time.

RESPONSIBILITY OF COORDINATION HOLDER

It is the responsibility of the Certificate of Coordination holder to keep the WWARA informed as to the status of the system by having an up to date technical data form on file with the secretary at all times.

Absent special circumstances, any correspondence from the WWARA shall be directed to the Certificate of Coordination holder. To facilitate this correspondence the address stated for the Certificate holder must be his/her home or personal post office box.

Where an organization is the sponsor of a repeater, the Certificate of Coordination holder for such a repeater must be an individual of proper amateur radio license class appointed by the organization. Notification of any change of the Certificate of Coordination holder or system status must be by WWARA Technical Data form submitted and signed by the chief officer of such organization.

All communication regarding coordination shall be in writing. Verbal communication shall not be binding. It is the Certificate of Coordination holder's responsibility to insure the WWARA is in receipt of any correspondence.

CANCELLATION OF COORDINATION

Any significant station parameter change, as specified on the Certificate of Coordination, made without prior approval by the WWARA shall result in cancellation of the Certificate of Coordination. (see ACCESS, HEIGHT, POWER, FREQUENCY OR LOCATION CHANGES)

The WWARA shall cancel a Certificate of Coordination as follows:

a. For failure to notify the WWARA within 6 months of the initial issuance of the Certificate of Coordination, or extension thereof, as to the status of the system.

b. For failure to occupy and utilize the frequencies as described by the Certificate of Coordination for a period of 6 months without the approval of the WWARA.

c. For operation in violation of WWARA coordination policies.

d. For not operating in accordance with established WWARA band plans.

e. For any system known to be operating in violation of FCC rules.

f. For failure to renew a Certificate of Coordination prior to its expiration using a completed WWARA Technical Data Form. This form must be kept current and updated at least every five years.

The Data Base Manager as a courtesy will on a semi-annual basis publish all Certificate of Coordinations due to expire within the next 6 months in the "Coordinator". No further notice will be given to the Certificate of Coordination holder. It is the sole responsibility of the Certificate of Coordination holder to monitor and renew its Certificate.

A six month grace period will exist after a certificate expires wherein the holder may renew the certificate by reapplying using a WWARA Technical Data Form and paying an Application Processing Fee.

The Secretary shall notify the coordination holder of the violation / failure to comply via mail. If a written reply is not received within 30 calendar days, delineating the corrective action to be taken to bring the system into compliance, the Certificate of Coordination will be automatically canceled.

TRANSFER OF COORDINATION

A Certificate of Coordination of an existing frequency can be transferred to another individual or group provided:

- a. Both parties are in agreement.
- b. The new proposed Certificate of Coordination holder agrees to abide by the WWARA

Coordination Policies and Procedures, pays a Renewal Processing Fee and applies to the WWARA for same.

- c. There are no reasonable objections to the transfer.
- d. There will be no changes in the operating parameters of the system coordination parameters.
- e. The new Certificate of Coordination will be issued to the new holder for a five year period.

DIGITAL COORDINATION

The following is the WWARA policy regarding Packet Radio Systems:

a. The WWARA shall not attempt to issue Certificate of Coordination to any digital systems, except when the proposed system requires;

1. Use of a standard repeater pair or link frequencies.
2. Use of spectrum previously and or historically coordinated for non-packet relay systems lying outside of established and recognized Packet Radio spectrum.

b. The WWARA shall protect existing co-site and adjacent frequency repeater from the effects of system performance degradation caused by Packet Radio Systems. Conventional FCC interference criteria will be used to determine degradation.

c. The WWARA shall work with the ARRL, regional coordination organizations, as well as local and regional Packet Radio organization in the development of band plans that will set out specific band for Packet Radio communications.

d. The WWARA shall not make any attempt to "list" or otherwise recognize any DIGI/Packet system and or frequency of operation in its data base or publication other than those system that utilize standard band plan frequencies and have a valid Certificate of Coordination.

SHARED NON PROTECTED REPEATERS

The WWARA has established several Shared Non Protected (SNP) repeater pairs. SNP systems must be registered by frequency and CTCSS tone. This form must be kept current and updated at least every two years. Other guidelines for the use of these frequencies are:

- a. All user of these frequencies shall share the use of same.
- b. User receive no protection from other cochannel users.
- c. All systems shall use CTCSS access or other approved methods of limited access.. No COR operation of any kind is permitted. The WWARA shall keep track of the CTCSS codes in use to avoid duplication and to make this information available to all those requesting the same.

d. Operation of SNP systems shall be on a non-interference basis with existing coordinated systems.

e. Use of SNP frequencies shall be restricted to voice, non-data and non-linked modes.

f. The SNP pairs using standard frequency pairing are:

6 meters 51.19 - 52.99

2 meters 144.53-145.13 and 144.69 - 145.29

222 MHZ 223.12 - 224.72 and 223.24 - 224.84

440 MHZ 445.00 - 440.00 and 448.00 - 443.00

g. Power limitations (elevations in AMSL, Power is ERP in Watts)

0-500' - 20 Watts

501 - 1000' - 10 Watts

1001 and greater may be approved on a case by case basis by the WWARA.

BAND PLANS

The following 440 MHZ frequencies have been reserved or control link application: 441.500 to 441.600 and 446.500 to 446.600. The CTCSS tone shall be assigned by the UHF Band Chairman.

GRIEVANCE PROCEDURE

Any applicant requesting a Certificate of Coordination for a frequency who has been denied by the Board may appeal the Board's decision using one or both of the following procedures.

1. The applicant may appeal the decision of the Board by submitting a written request to the Secretary stating that the applicant would like to bring additional information and argument to the attention of the Board. The Secretary shall schedule time during the next regular Board meeting for the applicant to present his / her argument for reconsideration by the Board. After hearing all pertinent information the Board shall vote on the applicants appeal. The simple majority vote by the Board shall determine the outcome.

2. The applicant may appeal the decision of the Board to the regular members who are Certificate of Coordination holders by submitting a written request to the Secretary stating that the applicant wishes to appeal the decision of the Board to the regular membership. The Secretary will request from the applicant that he/she supply in writing all argument and information relating to the matter for dissemination to the membership. The Secretary shall ask the Board to supply in writing all argument and information used in determining the reason for denial, also for dissemination to the membership. After receiving the requested information, the Secretary shall determine the cost for reproducing and mailing the information to the membership. One half of this cost must be submitted by the appellant prior to the Secretary proceeding with the appeal. The other one half of the cost will be paid from WWARA funds. The Secretary will then reproduce all material and disseminate the material along with instruction and a voting card to all current regular members holding a valid Certificate of Coordination from the WWARA. The members will be instructed to read the materials and indicate their decision on the voting card. The outcome will be determined by the simple majority of the cards returned.

The WWARA acknowledges and thanks World Radio, ARRL, FCC, Newsline, HamRadio Online and W5YI for allowing us to reprint some of their articles.

Meeting Notice

The next WWARA General Membership meeting will be held at the Seattle Times Building August 7, 1999. The meeting will begin at 10:00 am.

Seattle Times 19200 120th Ave NE Bothell, WA 98011. I-405 to 195th. Go East to 120th and go south to first or second driveway on left side. Use front parking lot and go to front lobby and training rooms are just off the lobby.

June 3, 1999 Board Meeting Minutes

The June 3rd Board Meeting was held at the Tacoma Radio Club. The meeting was called to order by Chairman Jon Marcinko, WR7JM at 7:00pm.

Introductions were made and a sign-in sheet was circulated. In attendance were: Jon Marcinko- WR7JM, Herman Entz- K7PAG, Pete Kruml- N7KFJ, Ed Bruette- N7NVP, Rob Lee- K7TGU, Al Burleson- K7HW, Mark McKibbin- WR7V, Nancy McKibbin- KB7BJE, Clay Freinwald- K7CR, Nick Jones- W7AA, Matthew Kula- KJ7HS, Pete Policani- K7PP, John Hirsch- W7RFM, David Swartz- KC7RHH, Dave Tyler- N7DRT.

ADJACENT AREAS:

- IACC: No additional news.
- B.C.: Jon indicated that he had requested a meeting with BC and they expected. A date and location is being looked into.
- ORRC: Jon Marcinko reported that he talked with Carl Di Paolo about ways to improve communications between the WWARA and the ORRC. They are working towards a time and place to meet. They have also discussed what the protocol should be between our groups.

The minutes from the April 3rd, 1999, were approved. The Treasurer report was read by WR7V, and approved. Mark pointed out we only have about half the paid member as normal.

COMMITTEE REPORTS

TECHNICAL -No news

6/10 Meters- 53.43 and 53.41 are under construction. 53.67 and 52.95 are testing. Jim Kaufman, W7UMH, reported that 53.09 users were being interfered with from BC. Ed has contacted the BC user.

2 Meters- Board action Item. 145.17 Authorized testing at KO Point has been terminating and a letter has been sent to Bud Davenport. It has caused interference to the Belfair repeater and has a strong signal in Pierce, Kitsap and Mason counties. The two meter band chairman recommends that the Board disapprove the move from Megler to KO point.

The board voted to terminate the test period for 145.17 on KO Point. A follow up letter is to be sent to Mr. Davenport outlining his options for any future testing on the 145.17 frequency for KO Point. The board agreed that the 145.17 repeater could be moved back to Meglar Hill without the required re-coordination and that no coordination fees will be levied.

145.15 K7PP Application on hold per K7PP request.

146.74 KA7GCT Email stating, that the 146.74 was a dead issue. This request will be returned.

146.90 K7KFM We have received a message from K7KFM with a complaint of interference from the British Columbia repeater. This information with past history of the Friday Harbor and South Seattle machines has been forwarded to George Merchant for resolution and or suggestion.

147.00 VE7CHUGEOGE MERCHANT May 25, 99 Mr. Merchant has informed us that they would like to reestablish a repeater at Chilliwack, about 90 miles east of Vancouver, north side of mountains from Washington State. There was a machine there for a number of years but was abandoned. A new group would like to re-coordinate it. WR7JM has written a letter to Mr. Merchant indicating we see no conflict, however request we be kept informed as to test dates and tone used that our coordinated user of the frequency may monitor the test.

KD7DPL Has requested a 2meter frequency and has asked for a co-channel with 146.76. David Tyler N7DRT gave us a cochannel letter of approval with certain stipulations. These will be in a letter of approval for testing for the KD7DPL repeater in Federal way when testing begins.

220- Board actions: 224.62 N8GNJ Steven Stroh has tested and the repeater is operational. 224.44 N7KFJ Pete Kruml has tested and the repeater is operational. 224.66 W7UFI Les Tomminger has tested and the repeater is operational. Board approved these coordination's.

224.14 K7SH Stephen Hart Applied for a repeater at Columbia Heights and was notified that a 60day test period is required. WA7ROB said it would be testing soon. 224.58 Has moved however it is not a co-ordinated frequency.

440 - Ken called Mark McKibbin and gave a verbal report to him. Mark said the plots for Mt. Burly indicated coverage in Organ and BC. He has sent the plots to these areas requesting comments.

The other seven items on the 440 pending items were not addressed. Ken told Mark he had not received anything in the last two months. Ken is possibly not receiving his e-mail messages because there has been no response to any e-mail correspondence. WR7JM will try and make phone contact with Ken to see what is going on.

900/1.2- No action. WR7JM indicated that Gene Colson, W7UVH, has agreed to take the 900/1200 band chair position and he has requested copies of all pertinent prior actions by the former chairs and coordinations of record.

OLD BUSINESS

A report from the technical committee that was requested at the last general meeting on purchasing coverage predictions software is not complete and is forthcoming.

The technical committee has been asked to prepare a response to Chris Grafton on the 147.26 interference issue presented at the last general meeting. This response will include copies of coverage profiles and suggestions on how to reduce interference for the westside.

The 1999 Repeater Directories are available and the Secretary will send out copies to those who prepaid. 150 units will be delivered to Radio Depot for sale to their customers.

Mark McKibbin indicated that now is the time to get advertisement for next year's directory. We need to get the data in early- by Dec. 15th. Suggested that a committee be formed.

NEW BUSINESS

Clay commented on the current discussions regarding the PRM on mandatory coordination. The NFCC is trying to determine if the RPM should be resubmitted to the ARRL Board or possibly directly to the FCC under current PRM guidelines. In the meantime, we will stand by for direction from Clay and the NFCC.

Jon Marcinko, WR7JM closed the meeting about 9:10. Next General Meeting will be at Seattle Times in Bothell on August 7, 1999, 10:00 AM.

Minutes by: Herman Entz, K7PAG

Swap and Shop

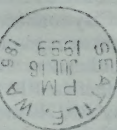
Forsale: Icom 781 HF Transceiver. Mint condition, includes service manual \$3200. Icom RP1220 1.2 Ghz fully Synthesised repeter (the new kind) \$2100. Must pick up in Port Ludlow. Mark, WR7V 360 437-0718

Forsale: 3 ea. RC100 Repeater Controllers \$140.00 each With rack mount chassis and doc's. Work great!! Was just removed from service because of upgrade to Link RLC-3 system. 1 ea. RC85 Repeater Controller (PCB only) \$200.00 Was purchased from ACC in 1989. Also lost's of doc's and old ACC news letters from the 80's! ea. ACC FP-900 with CTCSS Interface \$100.00 Is to be used with the RC85 controller and Icom band units. 1 ea. ICOM IC-900 UHF Band Unit \$175.0 Pete, N7KFJ 425-313-5877

Western Washington Amateur Relay Association
Post Office Box 65492
Port Ludlow, WA 98365-0492

ROBERT DONNELL, N7NKL
22820 84TH AVE W
EDMONDS, WA. 98026
Dues Exp. 12/2000

Meeting Notice:
The next WWARA General Membership meeting will be August 7, 1999 at 10:00 am at the Seattle Times Building - Bothell. Details Inside.



THE WESTERN WASHINGTON AMATEUR RELAY ASSOCIATION SERVING REPEATER OWNERS AND USERS SINCE 1976

BOARD OF DIRECTORS, 1999

POSITION	NAME	CALL	PHONE
Chairman	Jon Marcinko	WR7JM	253 566-9049
Vice Chairman	Herman Entz	K7PAG	253 857-5946
Secretary/Treas.	Mark McKibbin	N6OBY	425 881-9389
Representative #1	Ed Brütte	N7NVP	360 698-0917
Representative #2	Mark McKibbin	WR7V	360 437-0718
Representative #3	Pete Kruml	N7KFJ	425 313-5877
Representative #4	Clay Freinwald	K7CR	253 939-1414

STANDING COMMITTEES:

Technical	Steve Mayes / Marty Hadfield	KA7PMC/WB7AFV	425 558-9525
Membership	Herman Entz	K7PAG	253 857-5946
Coordinator Editor	Mark McKibbin	WR7V	360 437-0718
10 & 6 Meters	Ed Brütte	N7NVP	360 698-0917
2 Meters	Al Burelson / Herman Entz	K7HW/K7PAG	253 857-5946
220 MHZ	Peter Kruml	N7KFJ	425 313-5877
440 MHZ	Ken Rau	K7YR	425 222-7711
900/1200	Gene Colson	W7UVH	360 492-4313

Please feel free to contact your WWARA officials at any time for additional information about the Association. The COORDINATOR is published 6 times a year, and mailed to all parties having a WWARA coordinated system as well as those whom are paid USER members. Dues are \$12 per calendar year. The Coordinator is published BIMONTHLY. Address all formal correspondence and requests for coordination to: Visit the WWARA's web site at <http://www.wwara.org>

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